



EVOS
GC
1552
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S42
1989
v.11

[Shoreline evaluations, 1989].

Volume 11

Smith Island, Little Smith Island

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LIST OF KEY CODES USED ON SHORELINE CLEANUP EVALUATION FORMS

pg-3

ISLANDS (Locations)

Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA
Danger Is.	DA

* GEOLOGIC SEDIMENT TYPE

Boulder (>256mm)	B
Cobble (64-256)	C
Pebble (4-64)	P
Granule (2-4)	G
Sand (0.06-2)	S
Mud (less 0.06)	M
Rock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

Supratidal (+SHWL)	SU
HWL to SHWL	SP
Upper 1/3 ITZ	H
Middle 1/3 ITZ	M
Lower 1/3 ITZ	L

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

Beach	BEA
Cove	COV
High Angle	HANG
Low Angle	LANG
Vertical	VER
Headland	HLD
Spit	SPI

Comments:

* Multiple entry is acceptable, use decreasing order of type found.
(ie. C/G/S where C is most predominant type and S is the least one.)

** Heavy (>6m wide and/or >1.0 cm thick)
Moderate (3-6m wide and/or 0.2-1.0 cm thick)
Light (0.1 -3m wide and/or <0.2 cm thick)
No Oil (free of visible oil)



(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): SMITH ISLAND BLOCK

Includes Shoreline Segments: SM-5, SM-6

Submitted: _____ Date: _____
(for Exxon)

ISCC Recommendation: _____ Date: _____

FOSC Approval: _____ Date: _____

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): SMITH ISLAND - SOUTH BLOCK

Includes Shoreline Segments: SM-07

Submitted : *Scott A. Maun* Date: 8/5/89
(for Exxon)

ISCC Recommendation: *Sharon K. Christopher* Date: 8/7/89

FOSC Approval: *[Signature]* Date: 8/8/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

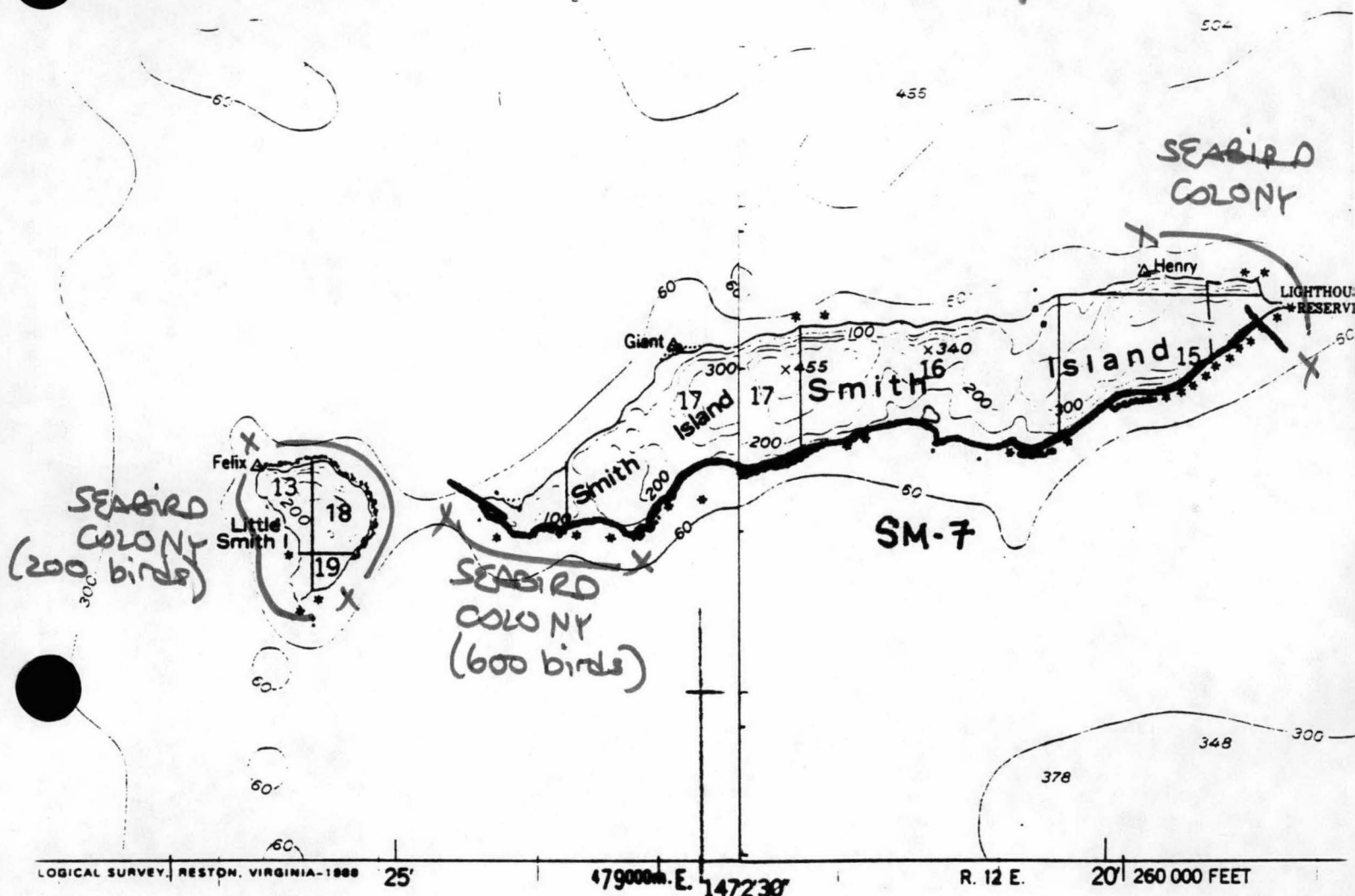
Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS

AK
8/7

8/7/89
USFWS



SMITH ISLAND SOUTH
BLOCK
SM-7

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/5/89

SHORELINE SEGMENT SM-07

LOCATION: (see enclosed map) SMITH ISLAND-SOUTH SHORE
(SOUTH BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use moderate to high pressure washing on rocks.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 4: Light oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone. Avoid disturbance to seabird colony and pinnipeds.

Archeological Constraints (from site survey):

No access to uplands in central quarter of segment. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer *

Date: August 6, 1989

ISCC: Sharon K. Christopher

Date: 8/7/89

EXXON: Daniel D. Tapp

Date: 8/7/89

FOSC: C. E. Noble

Date: 8-8-89

SHORELINE OIL EVALUATION

Date: 8/4/89 Time: 10-05

Observer: G. MACDONALD

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION South shore - Smith I. SEGMENT NUMBER SM-7

LENGTH OF SHORELINE SEGMENT: 6,700 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

small, shallow draft only

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 / C 10 / P 5 / G Take / S Take / M 70 / R 70

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 70 Width of Band: ≤ 1 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____ % "Free" Oil: ≤ 5 % Coated: H ≤ 2 % / M _____ % / L 95 %

Fresh _____ % Mousse 10 % Tar Formation: 90 %

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

The small heavily oiled pocket and most of this segment are inaccessible to all but small, shallow draft craft (< 30' long, < 5' draft) since there are numerous submerged rocks & reefs here.

Manual removal of free mousse by a v. small team may be feasible, but only for 10% of the heavily oiled patch (10% of 7m x 10m)

B/4 segment. SM-7.

10:05 HRS

persistent stream offshore

mod-low angle, wave-worn beach w/
blkr-cob. veneer; exposed bedrock
outcrops on beach face; no oil at all.
South coast - craggy, jagged rocky
shore w/ occasional beaches

trace oil on thin sun-melt band
@ UHWL

① 7x10m heavily oiled massive blks;
flee mouse under blks; tar coats
upper faces; inaccessible; HITZ;

trace tar line @ UHWL. $\leq 1m$
wide; inaccessible; mainly continuous.

② blkr-cob. beach, v. hi. energy,
light oil on tar coating $\leq 1m$
wide - 20m long; self-cleaning
evident. @ HITZ.

③ self-flushing cob-peb-grl beach;
(Sondia) faint tar trace on some
cobs - (self-cleaning); back-beach
lagoon; clean logs on + above supraZ.

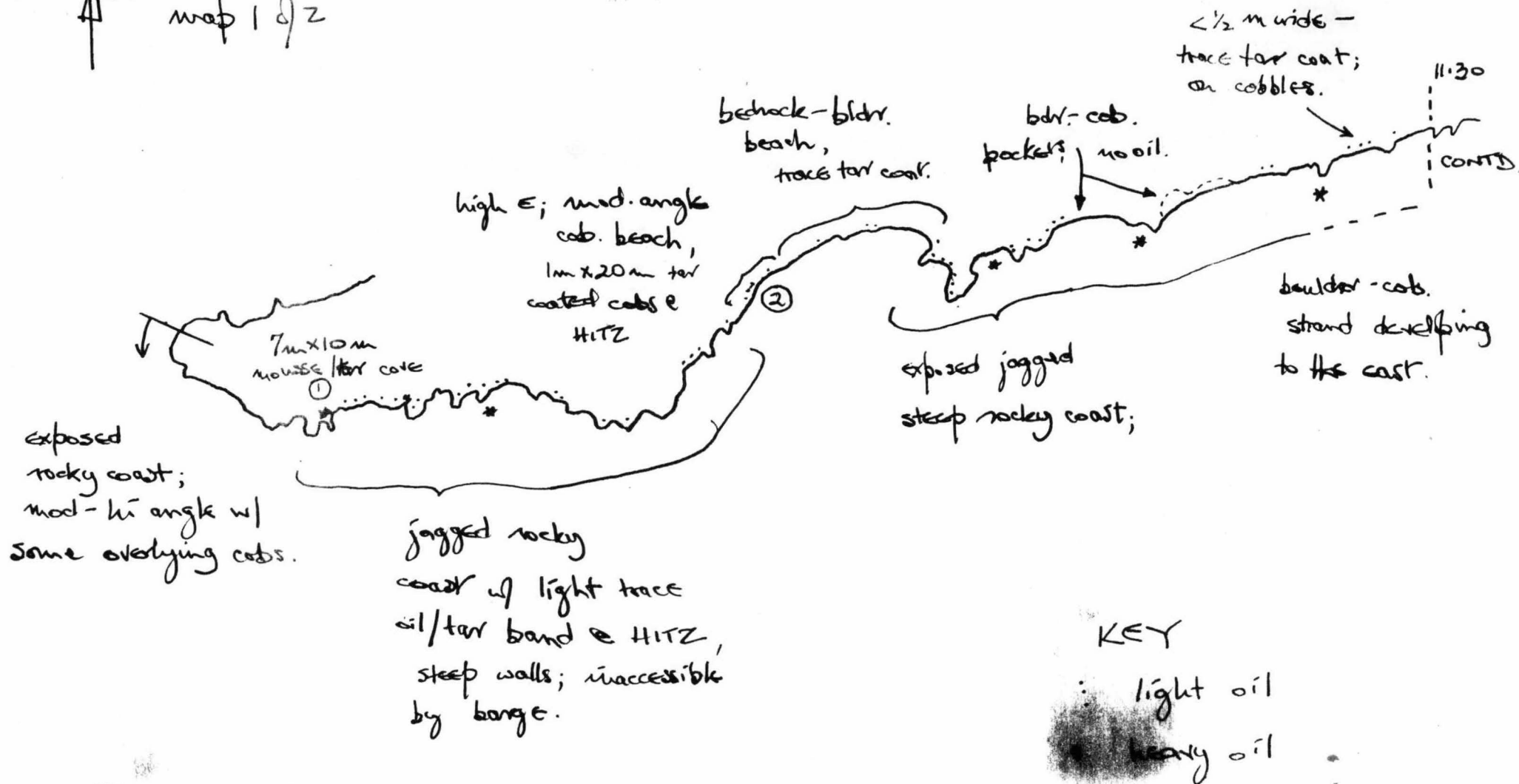
persistent tar spots and streaks along
UHWL @ base of cliffs (20-30m high)
v. exposed; inaccessible.

12:50 HRS

END of SEGMENT

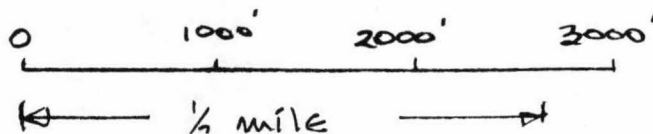


map 1 of 2



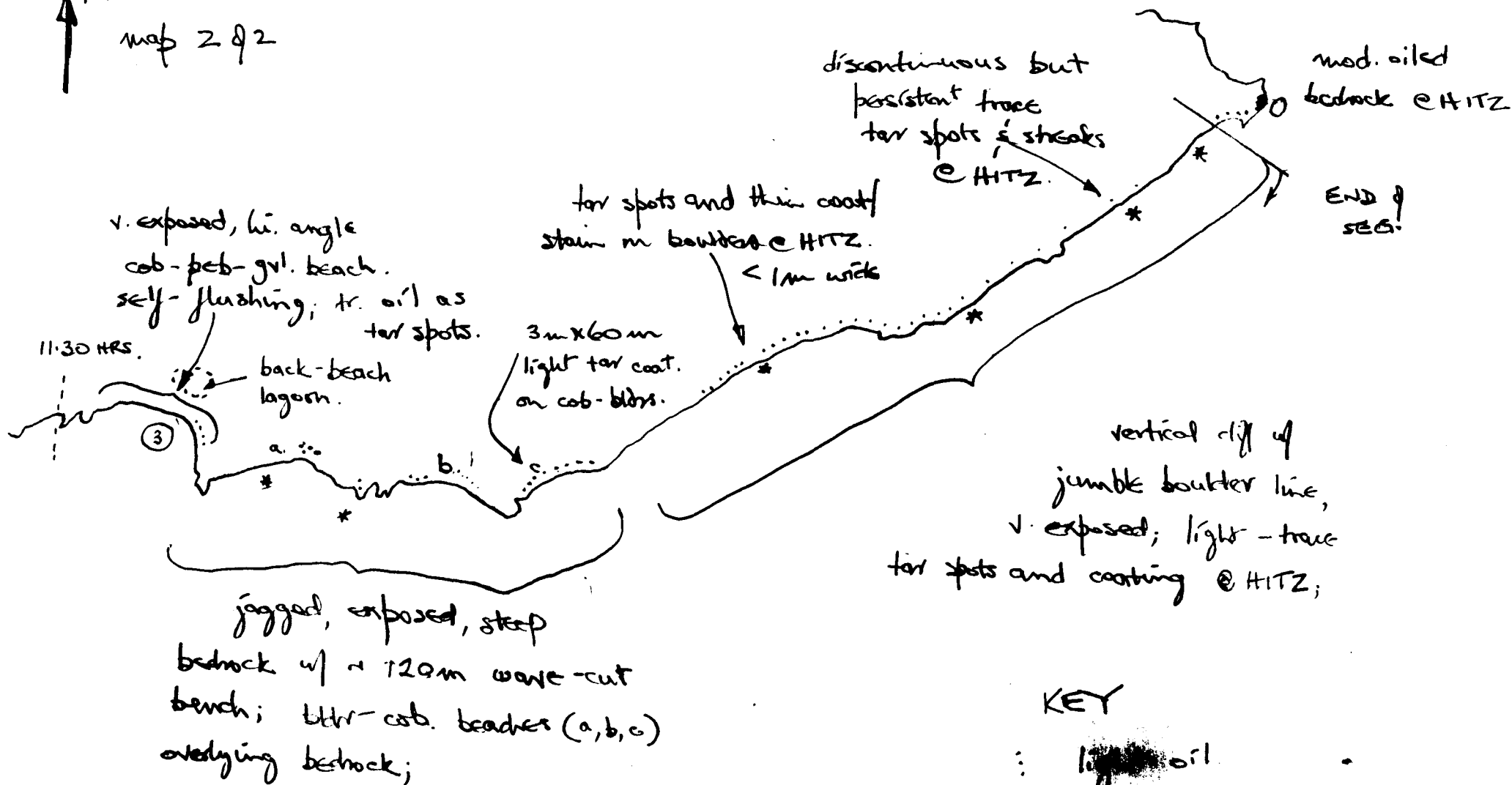
SEGMENT SM-7

a.m. 8/4/89 G. MACDONALD

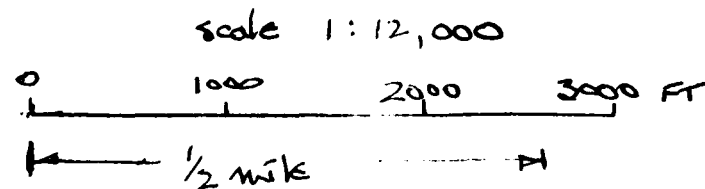


scale 1:12,000

N
map 2 of 2



SEGMENT 3M-7



LOCATION: Prince William St. SITE: Smith Is. OBSERVER: E.P. White
 LOCATION PREFIX: SM SEG. NO.: 7 LENGTH: 6700 (M)
 DATE: 08/04/89 TIME (HHMM): 1000-1245 TIDE HT.: -0.3 - 1.2 (M)
 OILED ZONE: Splash High Medium Low intermittent
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse Y/N None Y/N

continuous on rock // sparse or 0 on beaches // diverse algal community in lower-subtidal areas

Mytilus (Mussels): Patchy (Y/N) Contin. Y/N Dense (Y/N) Sparse Y/N None Y

- small dense colonies on rock / occasional colonies among cobbles

Balanus (Barnacles): Patchy (Y/N) Contin. (Y/N) Dense (Y/N) Sparse Y/N None Y

continuous B. glandula in high intertidal on rock // patchy on loose material // continuous sometimes dense colonies of B. cariosus @ mid-low intertidal elevations

Littorina

Patchy Y/N Contin. (Y/N) Dense Y/N Sparse (Y/N) None Y/N

continuous - sparse @ high tide elevations on rock // occasional dense population among cobbles near or below drift line (high tide elevations)

Limpets: Patchy Y/N Contin. (Y/N) Dense Y/N Sparse (Y/N) None Y/N

continuous - sparse on rock / sparse - patchy on boulders

OTHER OBSERVATIONS: intermittent kelp beds off shore

CLEANUP PRECAUTIONS: clear all activity with ADFG & USFWS re seabird nesting & seal haulout // minimize lower intertidal & subtidal disturbance

MAMMALS: Otters 2 Harbor Seals 40-60 Sea Lions 15-20 Whales _____
 Other _____

BIRDS: 150-200 f. Phalarope including birds leaving burrows / other birds - 5 oystercatchers / 10-20 pigeon guillemots / 50-60 gulls / 10 marked murrelets / 2

GENERAL OBSERVATIONS: 2 bald eagles & 1 falcon

CULTURAL RESOURCE EVALUATION

Date 8-4-89 Location Smith Island Site _____

Location Prefix SM Segment # SM-7 Length 6700m

Survey Method:

Air _____ (A - indicate on map) Boat ☒ _____ (A - indicate on map)

Ground ☒ _____ (G - indicate on map)

Known cultural resources (AHRS #) none Data Source AHRS

Oil conditions/beach visibility trace to heavy

Width of beach zone surveyed 10-20 m Tree fringe surveyed >30m

Cultural resources observed in beach zone (AHRS code) possible mooring log.

Cultural resources observed in tree fringe (AHRS code) HTI, HTD, CBN, SHP, CM

General observations justifying survey method and segment's site probability

Shore Profile Moderate to Vertical cliffs

Fresh Water Sources streams, back beach pond

Sea Exposure S, SE, High Energy shoreline

Access/Safety good to poor

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 5

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames _____

B/W Roll # P6P 12, P6P 13

Frames 33-37, 1-2

Observer(s) P. Phipps

Time survey started 1005 Time survey ended 1255

Cultural resource considerations/restraints:

No Access to uplands on central 1/6 of segment. If Hereafter
Archaeological materials (standard).

5/28/89

SEABIRD
COLONY
(200 birds)



SEABIRD
COLONY a
(600 birds)
a + b

SEABIRD COLONY b



SM-7

2 370 000
FEET

SMITH ISLAND

SMITH ISLAND

25JUL89

SEG SM-7
SN-7 INSPECTION # 1
 DATE 9/7/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☐ Hot water wash	☐ Mechanical
☐ Warm water wash	☒ Non-mechanical <u>HAND WIPING</u>
☐ Water deluge	☐ Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT SN-7 IS COMPLETE.

READY FOR DEMOBILIZATION.

Signature [Signature] Date: 9/7/89 Time: 4:22 PM
 Printed Name JOHN C. PASTICELLO

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
 Percent Degree of Oiling

<u> </u>	Heavy
<u> </u>	Medium
<u> </u>	Light
<u> </u>	Very Light
<u> </u>	None
100 %	

Subsurface Oil

☒ Yes ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil
 Percent Degree of Oiling

<u> </u>	Heavy
<u> </u>	Medium
<u> </u>	Light
<u> </u>	Very Light
<u> </u>	None
100 %	

Subsurface Oil

☐ Yes ☐ No

COMMENT BELOW

Reassessment

☐ Yes - necessary
☐ No - not necessary unless re-oiled

ADEC rep

Comments Not present for revision.

Signature

Date: 1 / 1 Time:

Printed Name

FOSC rep

Comments Revised to reflect some work accomplished

Signature [Signature]

Date: 9/7/89 Time: 1605

Printed Name JAMES R. PORTER, mstr

COPY: EXXON ADEC FOSC ISCC

SM-7

SEGMENT

DATE 8/16/89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

☐

Hot water wash

☐

Mechanical

☐

Warm water wash

☐

Non-mechanical

☐

Water deluge

☐

Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments

No cleanup was recommended in this segment

Signature William T Kelley

Date: 8/16/89 Time: 1510

Printed Name William T Kelley

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil
Percent Degree of Oiling

1%	Heavy
1%	Medium
1%	Light
97%	Very Light
100 %	None

Subsurface Oil

☒

Yes

☐

No

COMMENT BELOW

Reassessment

☒

Yes - necessary

☐

No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil
Percent Degree of Oiling

2	Heavy
1	Medium
2	Light
95	Very Light
100 %	None

Subsurface Oil

☒

Yes

☐

No

COMMENT BELOW

Reassessment

☒

Yes - necessary

☐

No - not necessary unless re-oiled

ADEC rep

Comments - Bio-Remediation was used in this area. Needs to be monitored in the future. No heavy oil visible.

Signature Wesley Ghormley

Date: 8/16/89 Time: 1840

Printed Name Wesley Ghormley

FOSC rep

Demobilization approved/disapproved

Comments No heavy oil present - only minor staining in couple spots.

Signature Thomas S. Harrison

Date: 8/16/89 Time: 1840

Printed Name Thomas S. Harrison LT USCG

COPY: EXXON ADEC FOSC ISCC

SHORELINE CLEANUP PROGRAM

DATE: 4/19/89

SHORELINE SEGMENT SM
EX-5

LOCATION: (see enclosed map) West half of north shore Smith Island

SHORELINE ASSESSMENT DATE: 4/13/89 4/14/89

Recommended Cleanup Activity(ies):

flood - flush
warm & cold washing
high/low pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

avoid living ecological species
avoid high pressure washing where invertebrates/seaweed
present

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered
during cleanup. Contact Exxon archaeologist C. Mobley
immediately .

EXXON: *[Signature]*

DATE: 5-8-89

FOSC: *[Signature]*

DATE: 4-10-89

CLEANUP ASSESSMENT REPORT

[10 Apr 89]

Assessment Date: 4/14/89Recommendation Date: 4/14/89LOCATION: Smith Island SITE: Central Beach on North SideLENGTH OF SEGMENT: 500 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float PlaneRECOMMENDATION FOR CLEANUP TECHNIQUE:

Prepared By: _____

ECOLOGICAL CONSIDERATION/RESTRAINTS: (incl. AACH)Prepared By: Dave Harrison Charles M. Miller

No restraints except recommended minimum methods on offshore sides of offshore rocks

Archaeology: No crew contact with historic structure (probable WWII military installation directly above pilings. ~~Minimize~~ Minimize disturbance to pilings area.

Unobserved cultural resources may be present, if discovered during clean-up, notify Exxon archaeologist immediately.

CLEANUP STARTED: ____/____/89

CLEANUP FINISHED: ____/____/8

segment visually/aerially expanded to the east
to include remainder of north shore,
due to difficulty of helicopter access

(mobley 4/15/89)
+ Mattson USQA
P.S.

~~SI-5~~
SM-5

Used with visual inspection. Photo of helicopter overflight the first ~~two~~ three parts of this evaluation is true for the areas east of this segment on the north side of Smith Island.

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 14 / 89

Observer: Hardin

Time: 08 h 30 m

Weather: Sun / Cloud / Rain / Snow / Fog

LOCATION

LOCATION Smith Island

SITE Central Beach North Side

LOCATION PREFIX SI SM

LOCATION SUFFIX -CB

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: 500 m

ACCESS: Foot / Vehicle / Boat / Barge / Helio / Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast X

Sheltered Coast

Rock YN

Vertical / High Angle / Low Angle

SEDiment YN

BEach / SPit / COVE

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

Large pool of oil in center of beach seeping down beach into water.

CONTINUOUS: YN

WIDTH OF CONTINUOUS BAND: 715 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: 1 cm

EST. OIL PENETRATION: 715 cm

POOLED OIL: YN

"FREE" OIL: YN

WEATHERED: Y/N

oil is thick & messy in pools

DOCUMENTATION

VTR: Y/N Tape Number(s)

PHOTOGRAPHY: Y/N Roll Number(s) 1/18

SAMPLE NUMBERS COLLECTED:

* Boulder area will be difficult to clean due to dangerous footing.

BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Smith Island Shore Segment: Central Beach
 Date: Tide: Weather:
 Shoreline Type: % by Type
 Rocks Boulders Cobbles Gravel Sand Mud

Supratidal

Intertidal

Subtidal

Percent Oil Coverage: High tide line X Intertidal X Offshore Sheen Oil Thickness, mm: High Tide Line Intertidal Oil Penetration, cm: High tide Line Intertidal Type of Coverage: Continuous Patches Small Spots Tar BallsHigh Tide Line: ContinuousIntertidal: Biological ReconnaissanceDead Invertebrates on Shore: Species/Numbers High energy beach, nothing living on cobbles/bouldersLiving Invertebrates: Species/Numbers None seen on beach, algae seen on offshore rockCondition of Living Invertebrates: NAMarine Mammal Activity: Species On/Offshore None notedDiving Bird Activity: Species On/Offshore None noted

Overall Biological Condition of Shore:

Undamaged Slightly Damaged Severely Damaged Dead Mat. Depauperate

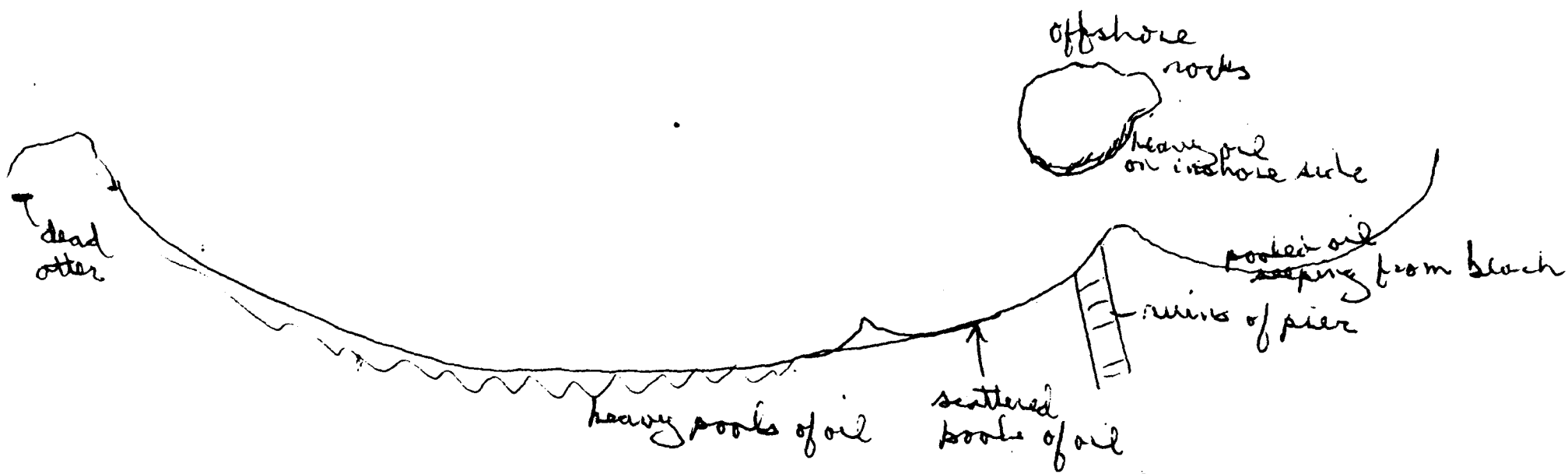
General Observations of Biological Conditions:

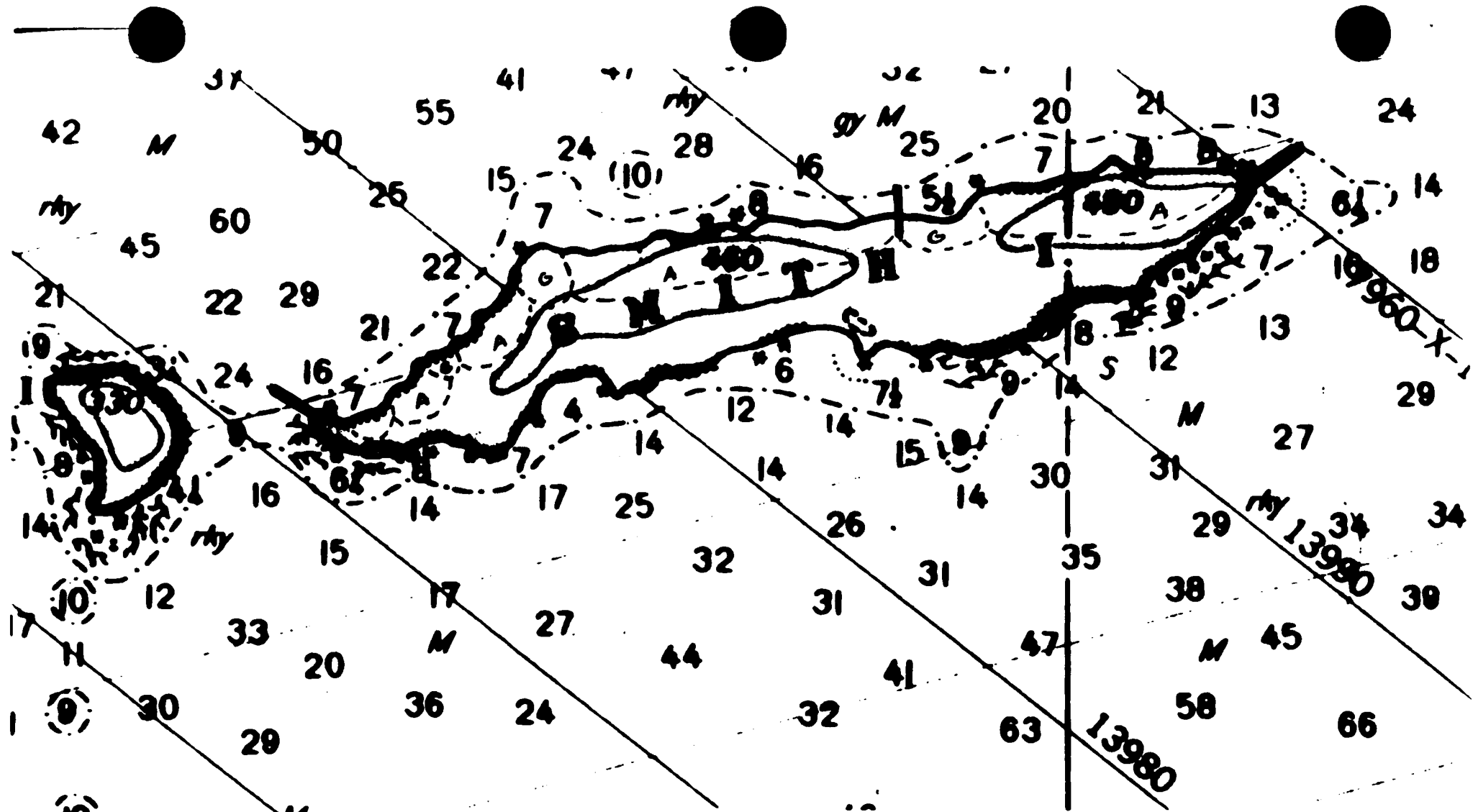
No living biota noted except on offshore rocks

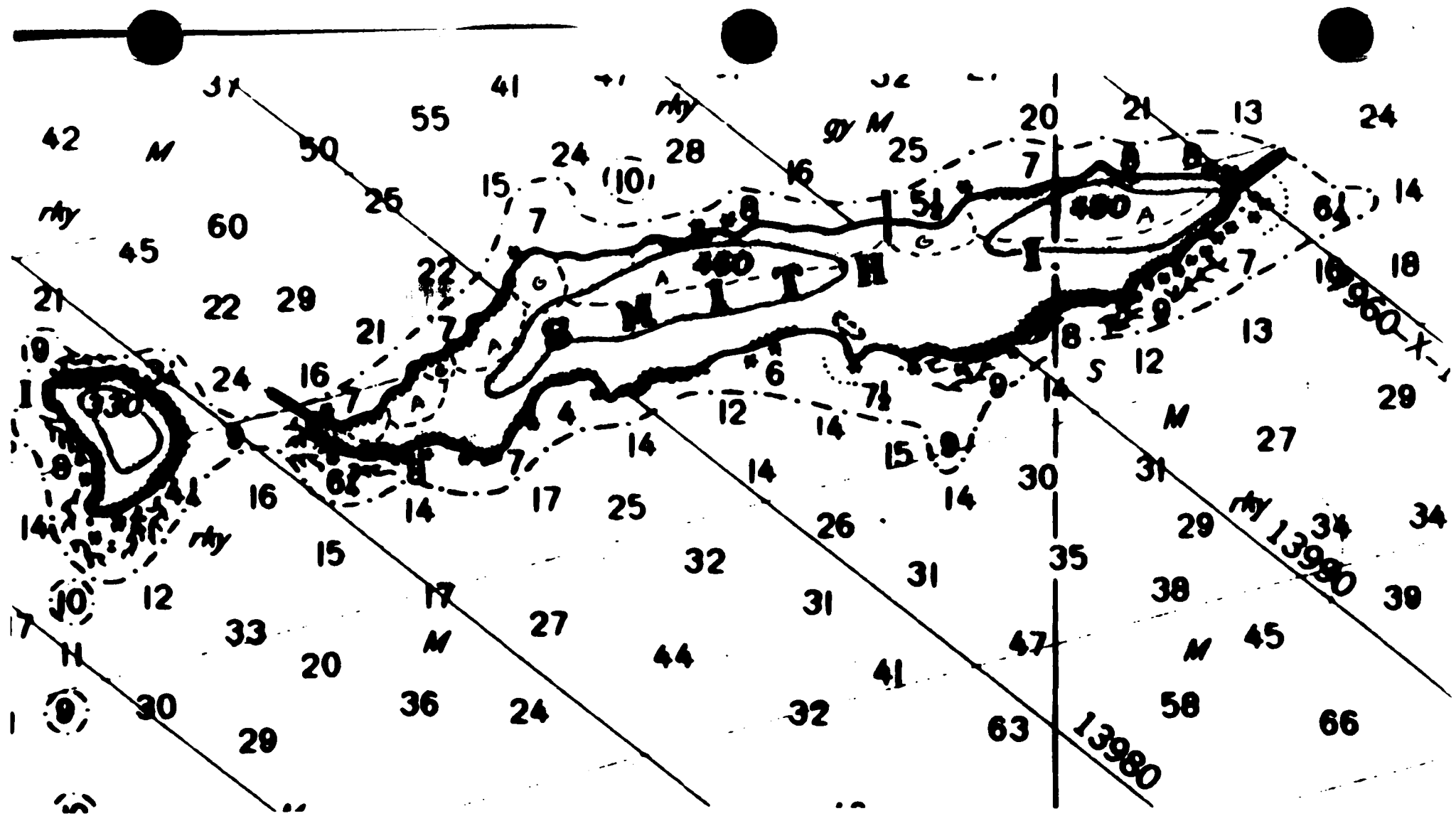
Recommended Spilled Oil Clean Up Approach:

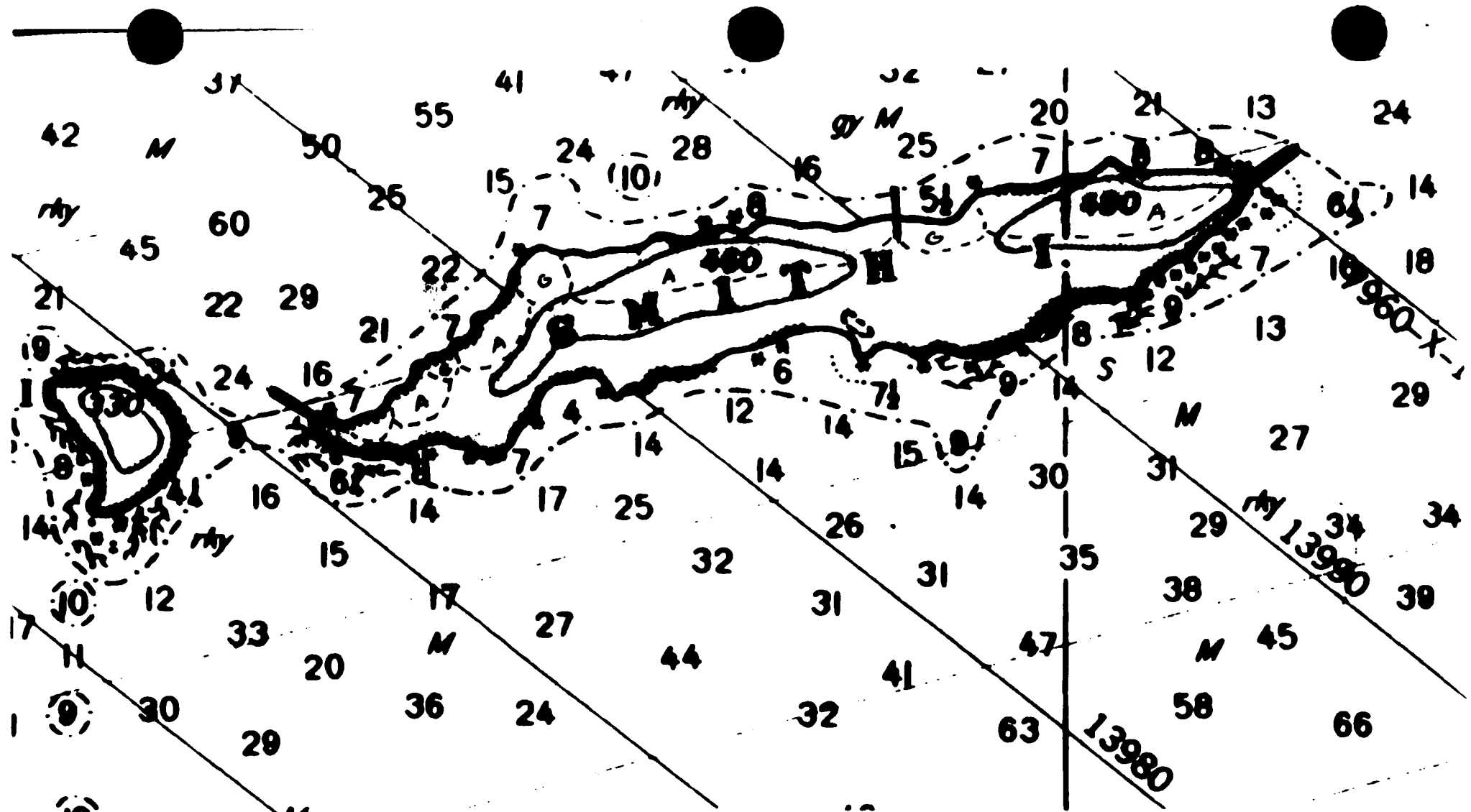
Special Precautions to Take During Clean Up: No precautions on beach. Do not clean offshore rocks, except inshore sides

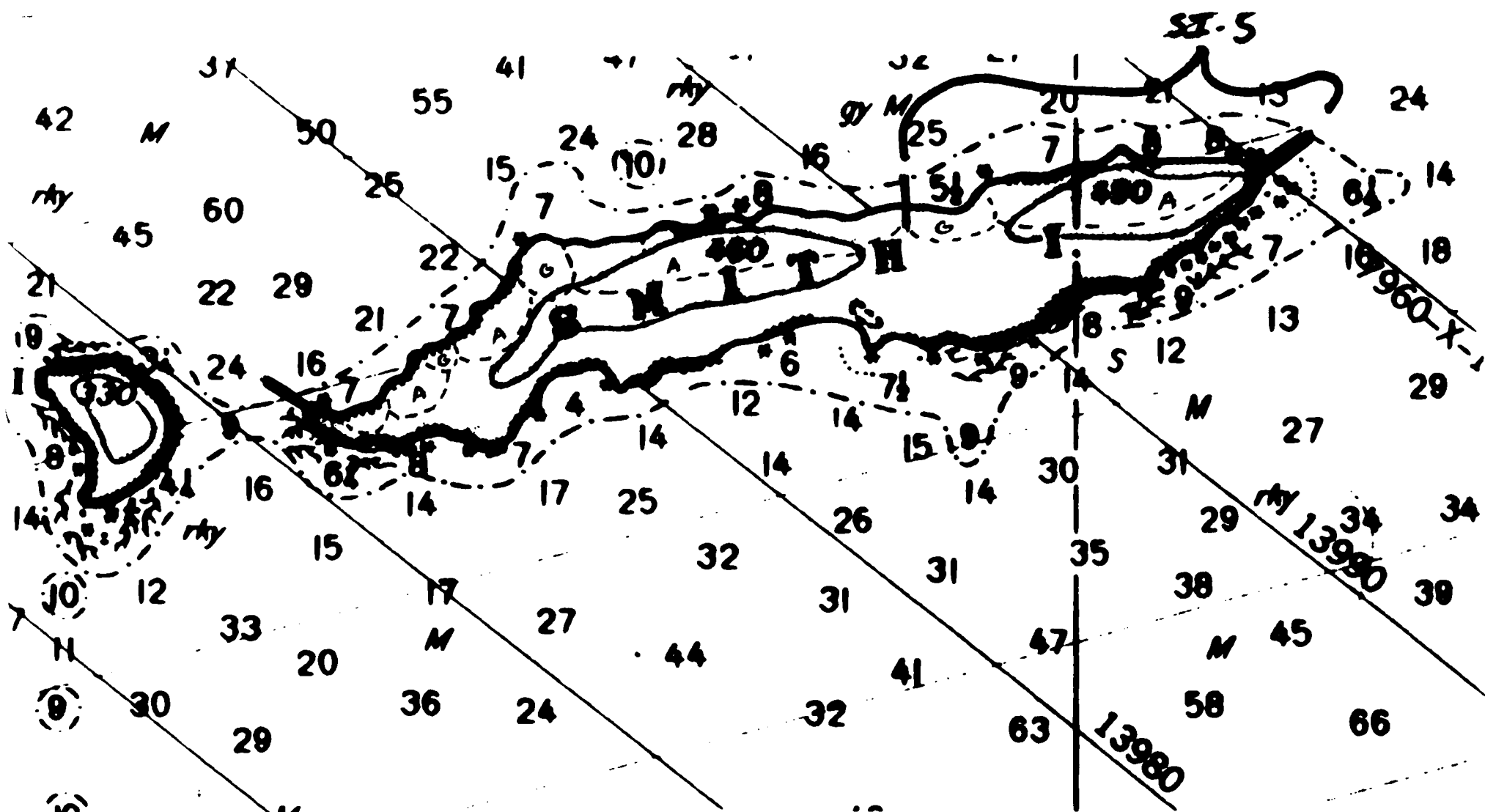
SM-5











KEY

LOCATION PREFIX

NAKED IS	NA
PEAK IS	PE
STOREY IS	ST
ELEANOR IS	EL
INGOT IS	IN
BLOCK IS	BL
ENTRANCE IS	EN
SPHINX IS	SP
DISK IS	DI
KNIGHT IS	KN
SMITH IS	SM
SEAL IS	SE
APPELGATE IS	AP
GREEN IS	GR

LOCATION SUFFIX

Use any 2 alphabet characters to describe the site or location
e.g. BASS HARBOR BH
McPHERSON BAY MB

Should be a geographic unit if possible.

KEY

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 ITZ	L

SEDIMENT TYPE

BOULDER (> 256 mm)	B
COBBLE (64 - 256)	C
PEBBLE (4 - 64)	P
GRANULE (2 - 4)	G
SAND (0.06- 2)	S
MUD (< 0.06)	M
ROCK	R

Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

SAMPLE DEPTH

SURFACE (0 - 3")	SF
SUBSURFACE (6 - 12)	SU
DEEP (> 12")	DP

BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Smith Island Shore Segment: West of Central Point
 Date: _____ Tide: _____ Weather: _____
 Shoreline Type: % by Type
Rocks Boulders Cobbles Gravel Sand Mud

Supratidal

Intertidal 20% ← 80% →

Subtidal

Percent Oil Coverage: High tide line ___ Intertidal ___ Offshore Sheen ___

Oil Thickness, mm: High Tide Line ___ Intertidal ___

Oil Penetration, cm: High tide Line ___ Intertidal ___

Type of Coverage: Continuous Patches Small Spots Tar Balls

High Tide Line: ContinuousIntertidal: PatchesBiological Reconnaissance

Dead Invertebrates on Shore: Species/Numbers

Biota
 Living Invertebrates: Species/Numbers Littorines, mussels, Echinoderms, Balanus
Nucella, all very scattered on bedrock outcrops

Condition of Living Invertebrates: Some small mussels are very weakMarine Mammal Activity: Species On/Offshore None other than porpoiseDiving Bird Activity: Species On/Offshore Shorebirds noted below

Overall Biological Condition of Shore:

Undamaged Slightly Damaged Severely Damaged Dead Natural pauperate

General Observations of Biological Conditions: Biota on offshore
rock over allmost, oil/spine needle seat, dead mussels, propods under
oiled cobble

Recommended Spilled Oil Clean Up Approach: Extreme measures are needed
oiling is very heavy. Use low pressure methods on vegetated rocks

Special Precautions to Take During Clean Up: None except for use of low
pressure on vegetated rocks or rocks with mussels.

CLEANUP ASSESSMENT REPORT

[10 Apr 89]

Assessment Date: 4 / 14 / 89

Recommendation Date: 4 / 14 / 89

LOCATION: Smith Island SITE: West of Central Point on North Side

LENGTH OF SEGMENT: ±1500 m

ACCESS: Foot/Vehicle/~~Boat~~/~~Barge~~/~~Helio~~/~~Float~~ Plane

RECOMMENDATION FOR CLEANUP TECHNIQUE:

Prepared By: _____

ECOLOGICAL CONSIDERATION/RESTRAINTS: (incl. ARCH.)

Prepared By: Charles M. Moller

Archaeology: No cultural resources observed in oiled beach area. Minimize crew contact ~~in~~ within tree line. Unobserved cultural resources may be present, if discovered during clean-up, notify Exxon archaeologist immediately.

Ecological Considerations: None for cobble/boulder beaches. On vegetated rocks do not dislodge plants or animals. Kane Hardin

CLEANUP STARTED: ____/____/89

CLEANUP FINISHED: ____/____/8

~~some~~ some helicopter (A)
and some ground (G)
Survey

KEY

LOCATION PREFIX

NAKED IS	NA
PEAK IS	PE
STOREY IS	ST
ELEANOR IS	EL
INGOT IS	IN
BLOCK IS	BL
ENTRANCE IS	EN
SPHINX IS	SP
DISK IS	DI
KNIGHT IS	KN
SMITH IS	SM
SEAL IS	SE
APPELGATE IS	AP
GREEN IS	GR

LOCATION SUFFIX

Use any 2 alphabet characters to describe the site or location
e.g. BASS HARBOR BH
McPHERSON BAY MB

Should be a geographic unit if possible.

KEY

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 ITZ	L

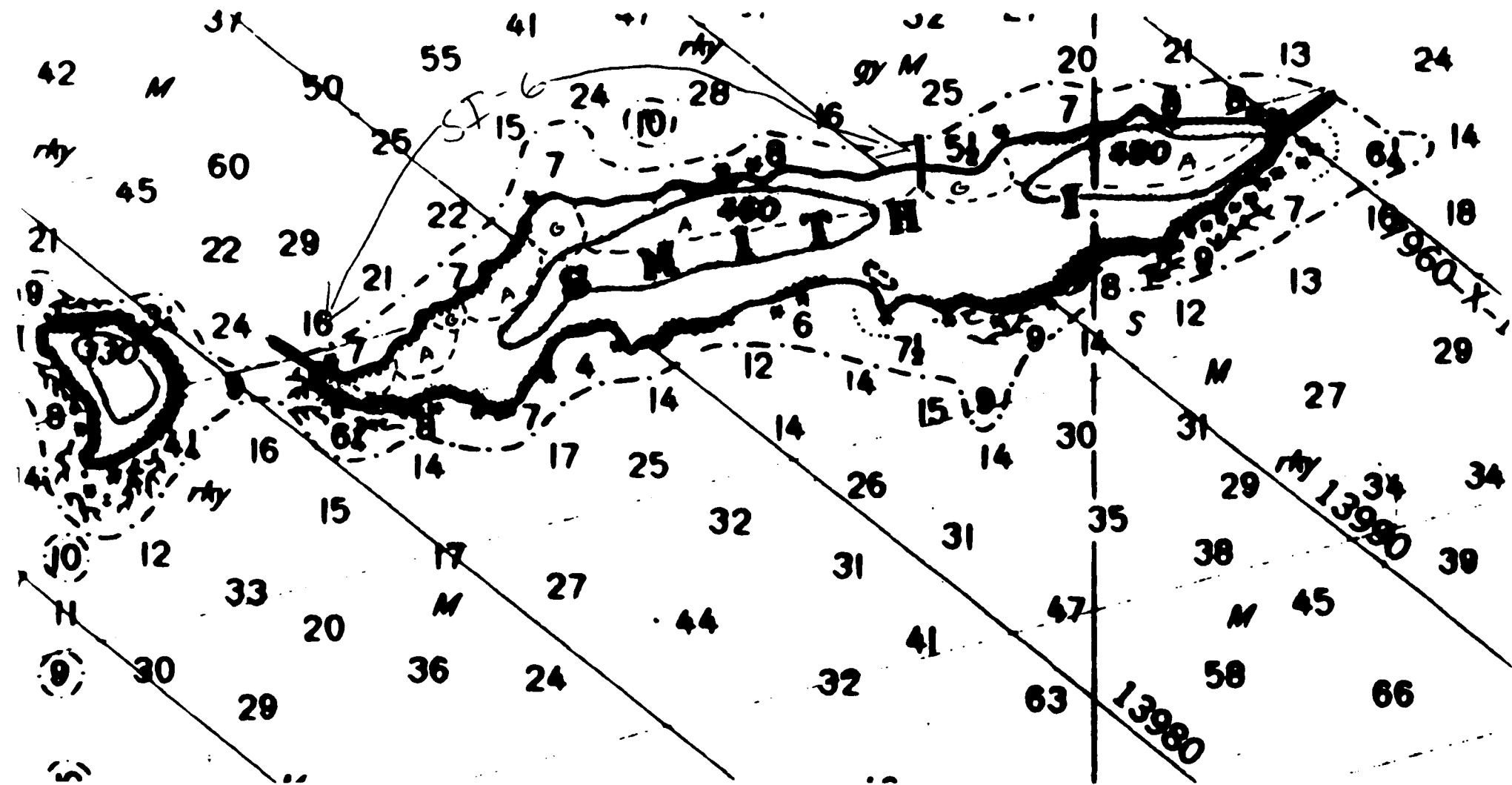
SEDIMENT TYPE

BOULDER (> 256 mm)	B
COBBLE (64 - 256)	C
PEBBLE (4 - 64)	P
GRANULE (2 - 4)	G
SAND (0.06- 2)	S
MUD (< 0.06)	M
ROCK	R

Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

SAMPLE DEPTH

SURFACE (0 - 3")	SF
SUBSURFACE (6 - 12)	SU
DEEP (> 12")	DP



SHORELINE CLEANUP PROGRAM

DATE: 4/19/89

SHORELINE SEGMENT SM
61-6

LOCATION: (see enclosed map) East half of north shore Smith Island
excluding eastern 1/8

SHORELINE ASSESSMENT DATE: 4/13/89

4/14/89

Recommended Cleanup Activity(ies):

flood-flush
warm & cold washing
high/low pressure washing

Priorities Considerations: .

Ecological Constraints (from site survey):

avoid living ecological species
avoid high pressure washing where invertebrates/seaweed
present

Archeological Constraints (from site survey):

Avoid impacts to pilings area in intertidal zone.
Avoid backshore activities near pilings area.
If heretofore undiscovered cultural material is uncovered
during cleanup, contact Exxon archaeologist C. Mobley
immediately.

EXXON: WR McAdams

DATE: 4-19-89

FOSC: CS Mobley

DATE: 4-20-89

684

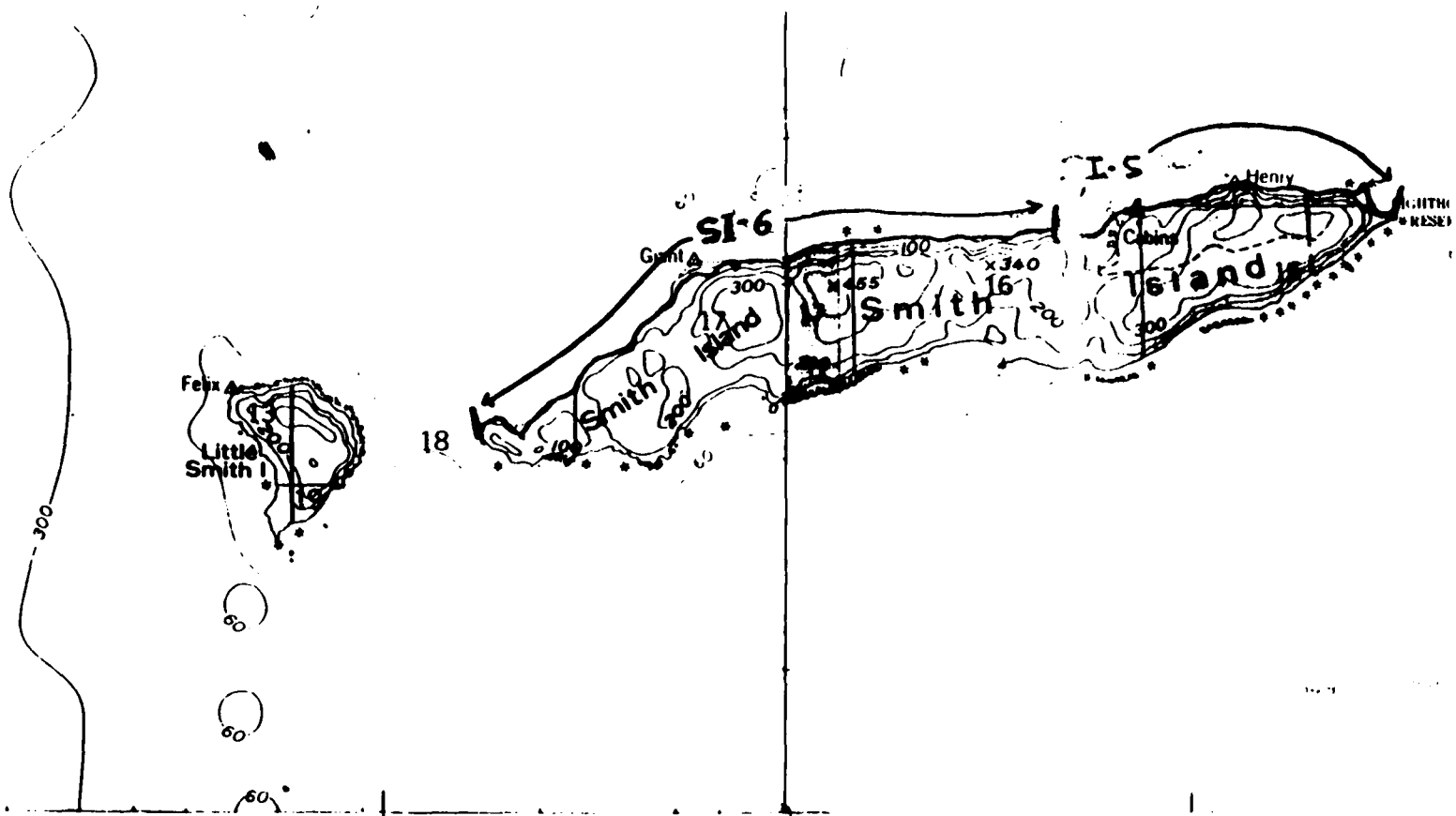
580

624

558

648

2976



2 370 000
FEET

SI-6

SHORELINE OIL EVALUATION

[revised 11 Apr 89]

Date: 4 / 14 / 89

Observer: Hardin

Time: 09 h 30 m → 1145

Weather: Sun Cloud/Rain/Snow/Fog

LOCATION

LOCATION Smith Island

SITE West of Central Point on North Sid

LOCATION PREFIX SI

LOCATION SUFFIX WE

LATITUDE: 6 d m s LONGITUDE: 147 d m s

LENGTH OF SHORELINE SEGMENT: ±1500 m

ACCESS: Foot/VEHICLE/~~BOAT~~/~~BARGE~~/~~HELIO~~/~~Float~~ Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast X

Sheltered Coast

Rock (Y/N)

Vertical/High Angle/Low Angle

Sediment (Y/N)

BEACH/SPIT/COVE

SEDIMENT TYPE: (B) (C) (P) (G) (S) / (M) / (R)

OIL

LOCATION OF OIL: SU (SP) (H) (M) / L

CONTINUOUS: (Y/N) WIDTH OF CONTINUOUS BAND: 10-720 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: >3 cm EST. OIL PENETRATION: >25 cm

POOLED OIL: (Y/N)

"FREE" OIL: (Y/N)

WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s)

PHOTOGRAPHY: Y/N Roll Number(s) 1/19-22

SAMPLE NUMBERS COLLECTED:

* Boulder areas will be very difficult to clean because of dangerous footing

BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Smith Island Shore Segment: Central Beach
Date: Tide: Weather:
Shoreline Type: % by Type
Rocks Boulders Cobbles Gravel Sand Mud

Supratidal

Intertidal

5% ← 95% →

Subtidal

Percent Oil Coverage: High tide line ☒ Intertidal ☒ Offshore Sheen ☐

Oil Thickness, mm: High Tide Line ☐ Intertidal ☐

Oil Penetration, cm: High tide Line ☐ Intertidal ☐

Type of Coverage: Continuous Patches Small Spots Tar Balls

High Tide Line: Continuous

Intertidal: "

Biological Reconnaissance

Dead Invertebrates on Shore: Species/Numbers High energy beach, nothing living on cobbles/boulders

Living Invertebrates: Species/Numbers None seen on beach, algae seen on offshore rock

Condition of Living Invertebrates: NA

Marine Mammal Activity: Species On/Offshore None noted

Diving Bird Activity: Species On/Offshore None noted

Overall Biological Condition of Shore:

Undamaged Slightly Damaged Severely Damaged Dead Nat. Depauperate

General Observations of Biological Conditions:

No living biota noted except on offshore rocks

Recommended Spilled Oil Clean Up Approach:

Special Precautions to Take During Clean Up: No precautions on beach. Do not clean offshore rocks, except within tides

ANUP ASSESSMENT REPORT

[10 Apr 89]

4 / 14 / 89

e: 4 / 14 / 89

land SITE: Central Beach on North Side

500 m

le/Boat/Barge/Helicopter/Float Plane

CLEANUP TECHNIQUE:

CON/RESTRAINTS: (incl. ARCH)

Person Charles M. Miller

I recommend minimum methods on offshore

works

with historic structure (probable WWII military installation)
~~Minimize~~ Minimize disturbance to pilings area.

may be present, if discovered during clean-up,
immediately,

____/____/89

____/____/8

erially expanded to the east
remainder of north shore,
difficulty of helicopter access

(mobley 4/15/89)
+ Mattson USDA

the site or location

KEY

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 ITZ	L

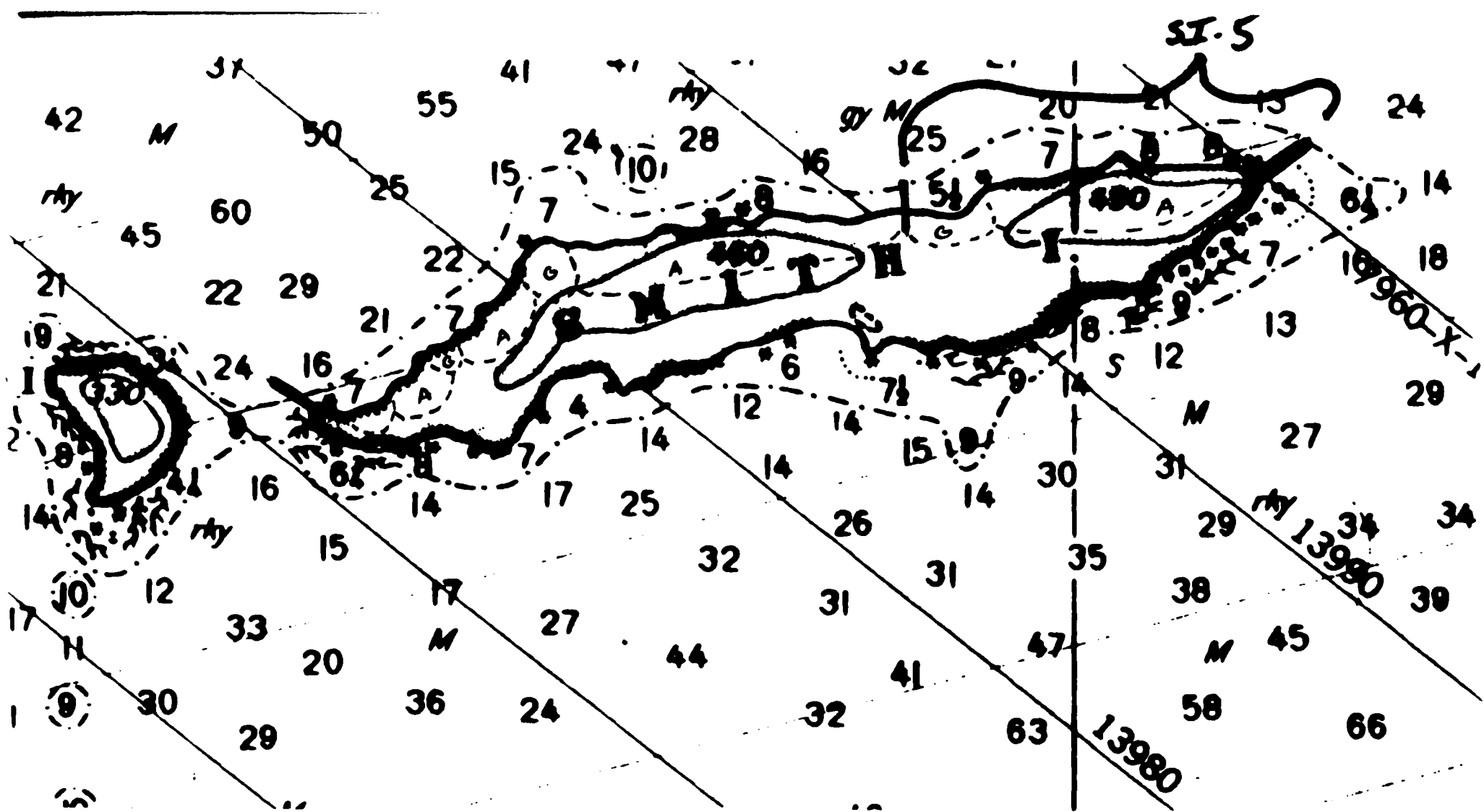
SEDIMENT TYPE

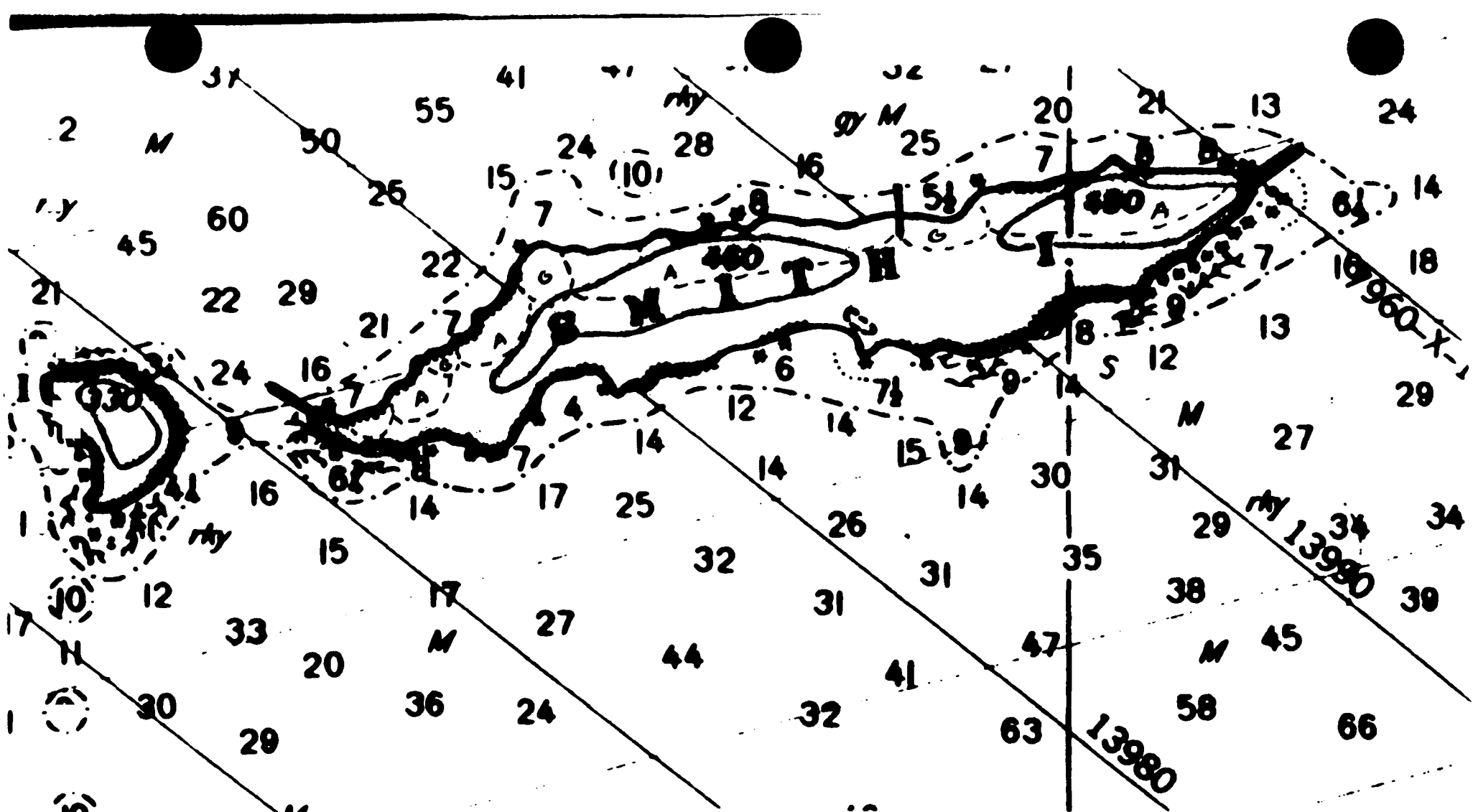
BOULDER (> 256 mm)	B
COBBLE (64 - 256)	C
PEBBLE (4 - 64)	P
GRANULE (2 - 4)	G
SAND (0.06- 2)	S
MUD (< 0.06)	M
ROCK	R

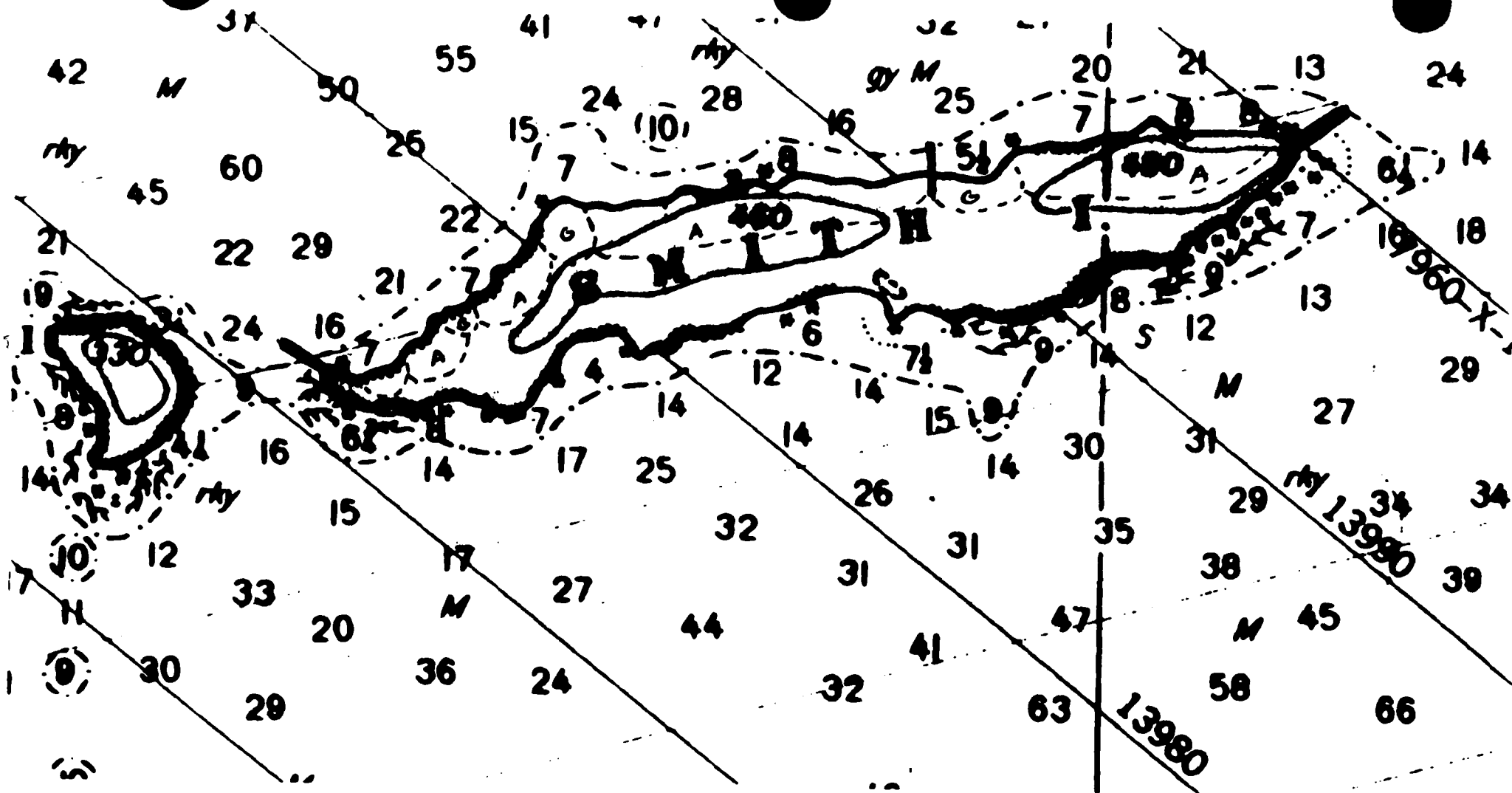
Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

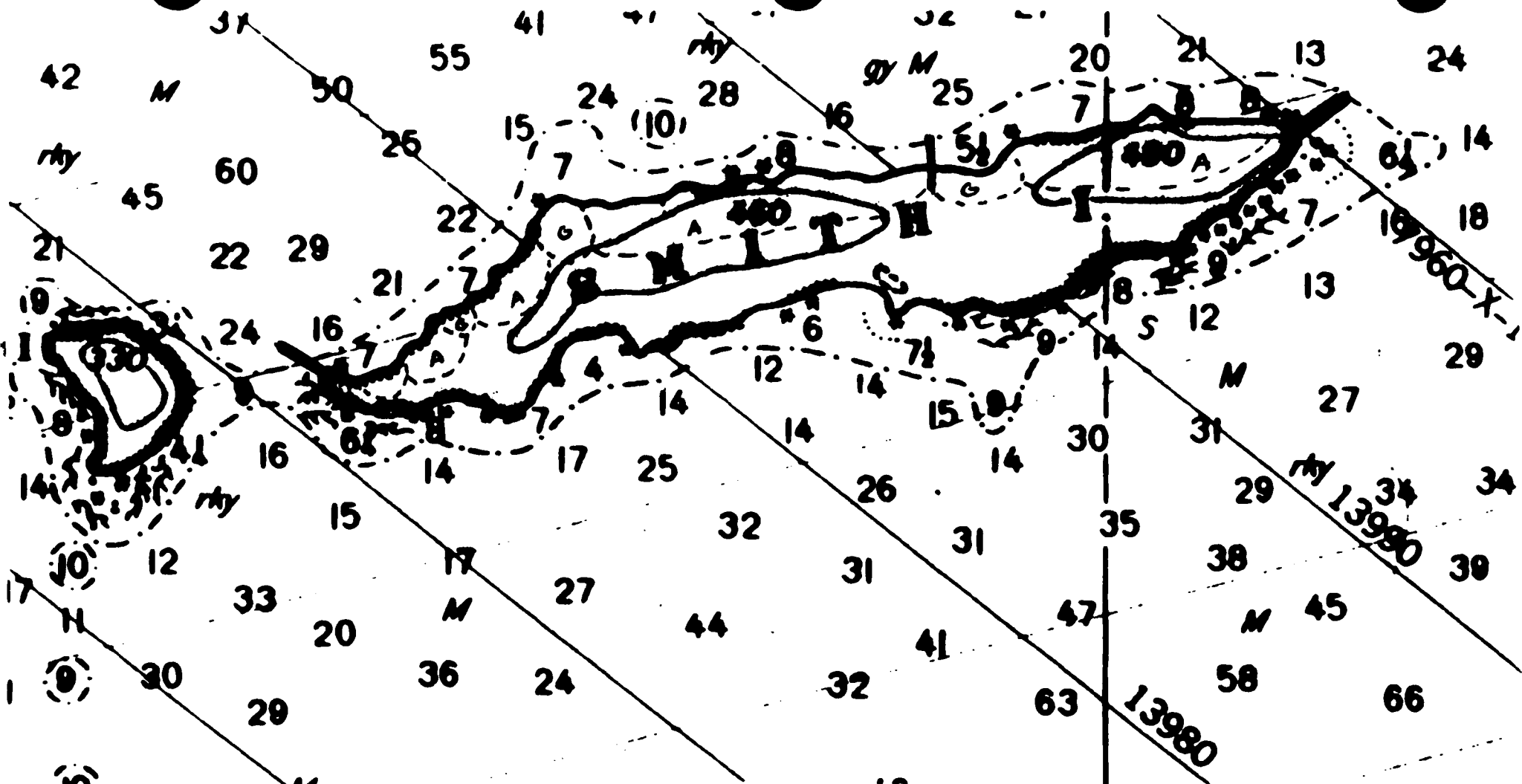
SAMPLE DEPTH

SURFACE (0 - 3")	SF
SUBSURFACE (6 - 12)	SU
DEEP (> 12")	DP









Sent to TR & OR

SHORELINE CLEANUP PROGRAM

DATE: 4/19/89

SHORELINE SEGMENT SI-5

LOCATION: (see enclosed map) West half of north shore Smith Island

SHORELINE ASSESSMENT DATE: 4/13/89

4/14/89

Recommended Cleanup Activity(ies):

as appropriate for gravel etc.

flood & flush

warm & cold washing

high/low pressure washing

} area where used?

Priorities Considerations:

Ecological Constraints (from site survey):

avoid living ecological species - *new! out area*

avoid high pressure washing where invertebrates/seaweed present

Archeological Constraints (from site survey):

If heretofore undiscovered cultural material is uncovered during cleanup. Contact Exxon archaeologist C. Mobley immediately .

EXXON: _____

DATE: _____

FOSC: _____

DATE: _____

SHORELINE CLEANUP PROGRAM

DATE: 14 APRIL 1989

Shoreline Segment: ① E. Smith ② North Smith ex. Eastern Y8

Shoreline Assessment Date: 13/14th APRIL

Recommended Cleanup Activity(ies):

[TEST] ① Vikovakr (wash-vacuum)

② Flood-flush
[TEST] [Vikovakr (wash-vacuum)
Stream - cleaning / Cold Washing
High/Low Pressure Washing

Ecological/Arch. Constraints:

① none

② avoid living ecological species
avoid backshore - archaeological
avoid one backshore/upper intertidal site

avoid stream and pressure (high) where
invertebrates / seaweed present

EXXON [Signature] Date: 4/14/89

OSC: [Signature] Date:

The following Agencies concur with this proposed task and recommend that the OSC sign this document

USEPA - Joseph Zofurana

Kurt Nelson 4/14/89

USDA - REPRESENTATIVE

Alaska Dept Fish & Game - [Signature]

NORAD - Glen Robinson

ADEC Colleen D. Burch

Submitted

[Signature]
4/14/89

SHORELINE CLEANUP PROGRAM

DATE: 4/19/89

SHORELINE SEGMENT SI-6

LOCATION: (see enclosed map) East half of north shore Smith Island
excluding eastern 1/8

SHORELINE ASSESSMENT DATE: 4/13/89

4/14/89

Recommended Cleanup Activity(ies):

flood-flush
warm & cold washing
high/low pressure washing

Priorities Considerations:

Ecological Constraints (from site survey):

avoid living ecological species
avoid high pressure washing where invertebrates/seaweed
present .

Archeological Constraints (from site survey):

Avoid impacts to pilings area in intertidal zone.
Avoid backshore activities near pilings area.
If heretofore undiscovered cultural material is uncovered
during cleanup, contact Exxon archaeologist C. Mobley
immediately.

EXXON: W.R. McAlam

DATE: 4-19-89

FOSC:

DATE:

5/28/89

085

624

558

648

SEABIRD
COLONY
(200 birds)



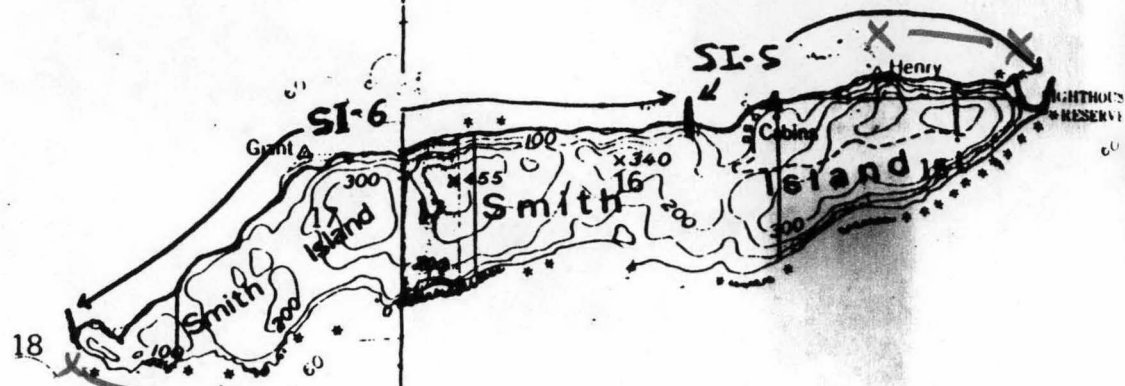
60

60

60

18

SEABIRD
COLONY a
(600 birds)
a + b



2 370 000
FEET

SM-5
DATE 8/11/89

1 SM5

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash

Warm water wash

Water deluge



Mechanical

Non-mechanical POA-POA

Other WATER WASH IN ISOLATED AREAS

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments

COMPLETE READY FOR DEMOBILIZATION

Signature

[Signature]

Date: 8/11/89 Time: 10:55

Printed Name

JOHN C. POSTICELLO

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

0-100
35
25
10
25-35
100 %

Heavy

Medium

Light

Very Light

None

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent Degree of Oiling

5
35
30
10
20
100 %

Heavy

Medium

Light

Very Light

None

Subsurface Oil

☒ Yes

☐ No

COMMENT BELOW

Reassessment



Yes - necessary



No - not necessary unless re-oiled

Subsurface Oil

☒ Yes

☐ No

COMMENT BELOW

Reassessment



Yes - necessary



No - not necessary unless re-oiled

ADEC rep

Comments

The berm on the gravel beach still has medium

oiling of a heavy consistency. More oiling exists in nearly inaccessible

Signature

[Signature]

Date: 8/13/89 Time: 10:55

Printed Name

[Name]

FOSC rep

Comments

Demobilization approved/disapproved

Signature

[Signature]

Date: 8/13/89 Time: 10:50

Printed Name

[Name]

COPY: EXXON ADEC FOSC ISCC

SEG SM6 INSPECTION # 1

SEGMENT

DATE 7 Sept 89

INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment



Hot water wash

Mechanical STEEL LAMINATION

Warm water wash

Non-mechanical Boat in indicated areas

Water deluge

Other SWAB BOAT

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT SM-6 IS COMPLETE.READY FOR DEMOBILIZATION.Signature J. C. PonticelloDate: 9/7/89 Time: 4:30 PM

Printed Name

JOHN C. PONTICELLO

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent Degree of Oiling

< 1
2
20
25
50
100 %

Heavy
Medium
Light
Very Light
None

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent Degree of Oiling

100 %

Heavy
Medium
Light
Very Light
None

Subsurface Oil

☒ Yes (some areas) ☐ No

COMMENT BELOW

Reassessment

☒ Yes - necessary
☐ No - not necessary unless re-oiled

Subsurface Oil

☐ Yes ☐ No

COMMENT BELOW

Reassessment

☐ Yes - necessary
☐ No - not necessary unless re-oiled

ADEC rep

Comments No ADEC representative was available.

Signature

Date: 1/1 Time:

Printed Name

FOSC rep

Demobilization approved/disapprovedComments No pooled oil was sighted.Signature James R. PorterDate: 9/7/89 Time: 1600

Printed Name

JAMES R. PORTER

COPY: EXXON ADEC FOSC ISCC